



18 CROSBY DRIVE
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SDMS DocID 281404

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January 31, 1991

**Final Screening Site Inspection
Bridgeport Name Plate Inc.
Monroe, Connecticut**

**TDD No. F1-8911-01
Reference No. \$375CTY71\$
CERCLIS No. CTD011184272**

INTRODUCTION

The NUS Corporation Field Investigation Team (NUS/FIT) was requested by the Region 1 U.S. Environmental Protection Agency (EPA) Waste Management Division to perform a Screening Site Inspection (SSI) of the Bridgeport Name Plate Inc. property in Monroe, Connecticut. All tasks were conducted in accordance with Technical Directive Document (TDD) No. F1-8911-01 which was issued to NUS/FIT on October 30, 1989. The Connecticut Department of Environmental Protection (CT DEP) completed a Preliminary Assessment (PA) of this property on June 27, 1984. On the basis of information provided in this Preliminary Assessment, the Bridgeport Name Plate Inc. Screening Site Inspection was initiated.

Background information used in the generation of this report was obtained through file searches conducted at the CT DEP and at the EPA. Information was also collected during an onsite reconnaissance and soil sampling of the property conducted by NUS/FIT.

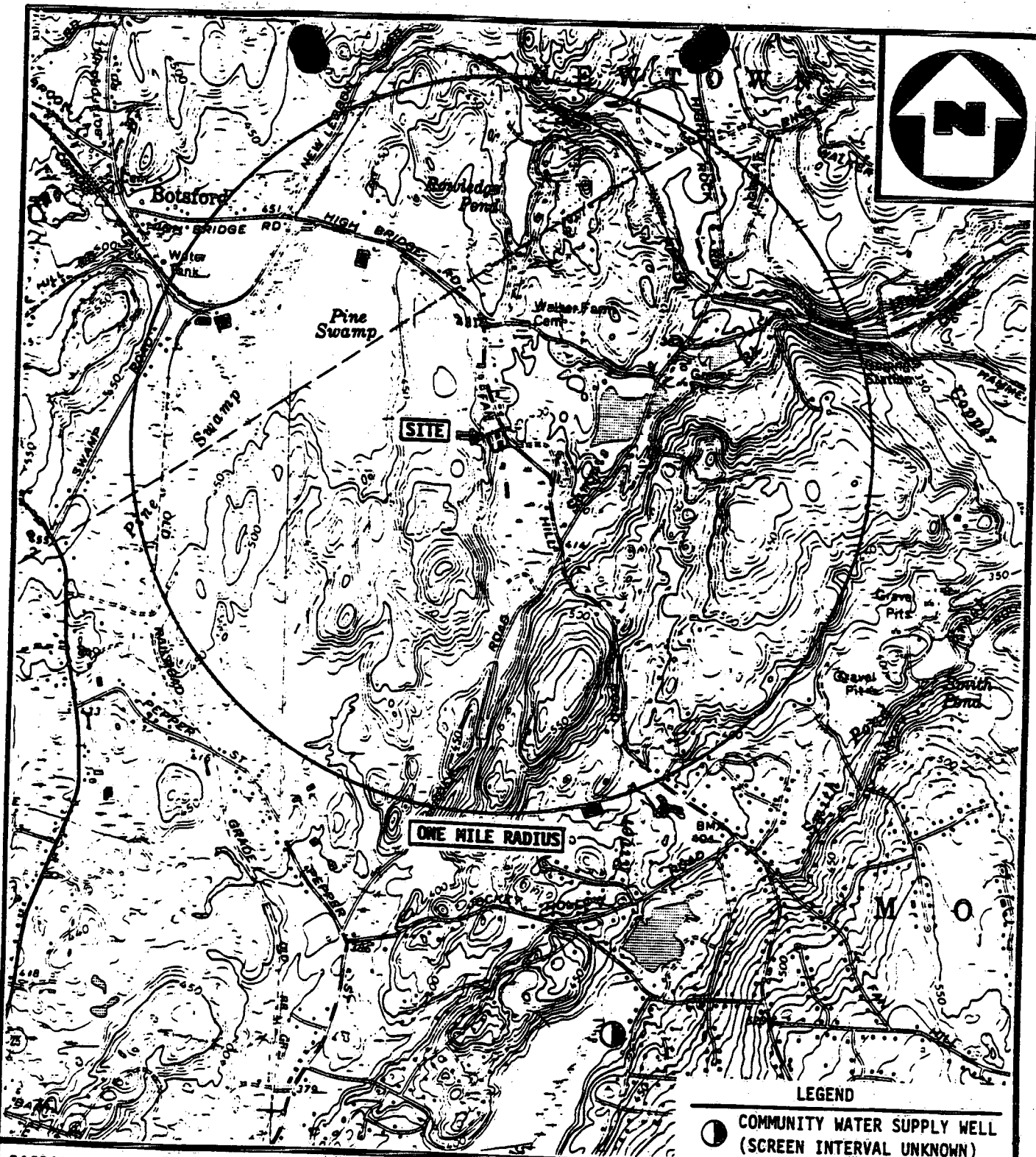
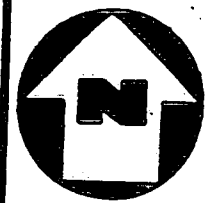
This package follows guidelines developed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, commonly referred to as Superfund. However, these documents do not necessarily fulfill the requirements of other EPA regulations such as those under the Resource Conservation and Recovery Act (RCRA), or other federal, state, or local regulations. Screening Site Inspections are intended to provide a preliminary screening of sites to facilitate EPA's assignment of site priorities. They are limited efforts and are not intended to supersede more detailed investigation.

SITE DESCRIPTION

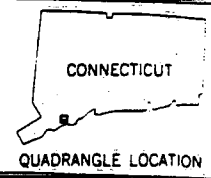
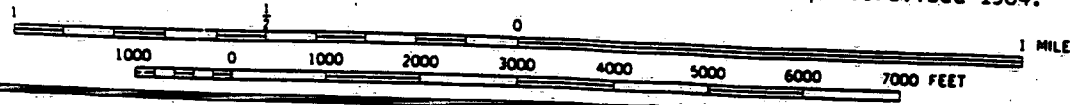
The Bridgeport Name Plate Inc. facility is located at 585 Fan Hill Road in Monroe, Fairfield County, Connecticut (Latitude 41°22'33" N, Longitude 73°14'20" W; Figure 1) (CT DEP, 1984). The property is 1.40 acres in size and was used by Bridgeport Name Plate between 1974 and 1988. Bridgeport Name Plate Inc. manufactured nameplates, dials, and signs. Process wastes were allegedly discharged to a dry well, holding tank, septic tank, and onto the ground (CT DEP, 1980; 1984; 1986c; 1986d; 1988; NUS/FIT, 1990). *See letter from P. Marsilio dated April 2, 1991*

Two buildings are located on the property, identified as 585 and 591 Fan Hill Road (Figure 2); however, only the building at 585 Fan Hill Road was used by Bridgeport Name Plate Inc. (CT DEP, 1980; Monroe, 1988a; 1988b; NUS/FIT, 1990). This building is a single story, cinder block structure, 3,148 square feet in size (Monroe, 1988a). Both buildings are joined to a common septic system located beneath the paved driveway (NUS/FIT, 1990). The property is not fenced nor are there any barriers to restrict access to the property. The yard in front of the building was used by the property owner as a stump dump (NUS/FIT, 1990).

Table 1 lists all identified and potential source areas of contamination on the property, the means by which the contaminants have been contained, and the spatial location of the source areas. The only potential source areas listed in Table 1 and located on the property by NUS/FIT personnel during the onsite reconnaissance are the underground storage tank and the septic system (NUS/FIT, 1990).



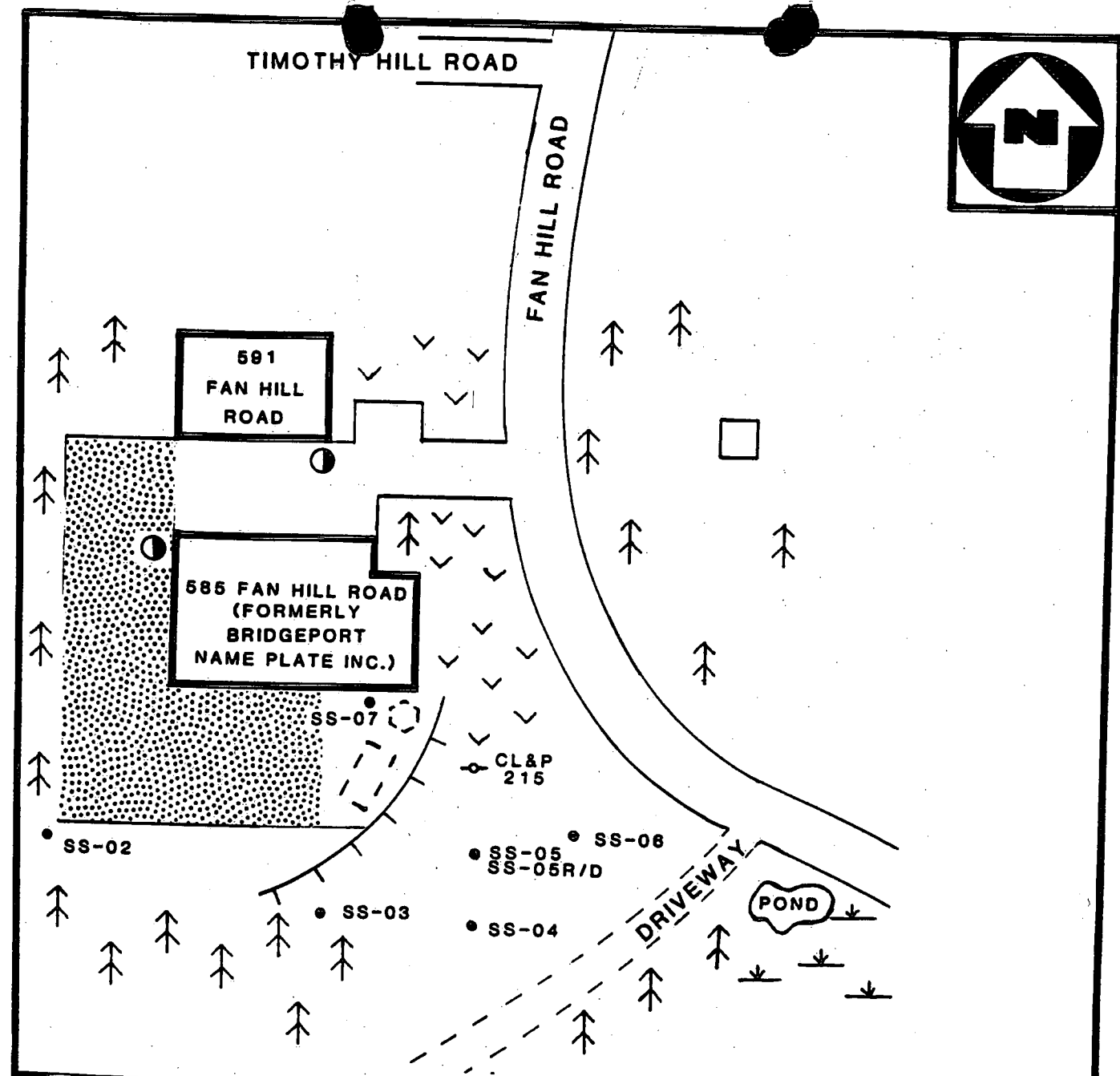
BASE MAP IS A PORTION OF THE FOLLOWING 7.5' U.S.G.S. QUADRANGLE(S):
Botsford, Ct., 1969, photorevised 1984; Long Hill, Ct., 1964, photorevised 1984.



LOCATION MAP
BRIDGEPORT NAME PLATE INC.
MONROE, CONNECTICUT



FIGURE 1



LEGEND:

- NUS/FIT COMMAND POST
- SS-0x - SAMPLE LOCATION, SOIL
- BUILDING - RESIDENTIAL; NON-RESIDENTIAL
- DRY WELL (EXCAVATED)
- GRASS
- GRAVEL

- ROAD - PAVED; UNPAVED
- SLOPE (TICK MARKS ON DOWNHILL SIDE)
- SWAMP, MARSH, OR WETLAND
- CL&P XXX - TELEPHONE POLE
- TREE OR WOODED AREA
- UNDERGROUND STORAGE TANK
- WATER SUPPLY WELL (SCREENED INTERVAL UNKNOWN)

SAMPLE LOCATIONS
 BRIDGEPORT NAME PLATE INC.
 MONROE, CONNECTICUT

NUS
 CORPORATION

FIGURE 2

TABLE 1
SOURCE EVALUATION
BRIDGEPORT NAME PLATE INC.

SOURCE	CONTAINMENT	SPATIAL LOCATION	REFERENCE
dry well	dry well excavated in 1983	25 feet south of building	CT DEP, 1980 CT DEP, 1986d NUS/FIT, 1990
pile	none	unknown	CT DEP, 1986c CT DEP, 1986d CT DEP, 1988
septic system	none	between buildings under paved driveway	CT DEP, 1980
underground storage tank	none	40 feet south of building	NUS/FIT, 1990
other: floor drains	none	under building	CT DEP, 1986b CT DEP, 1988
other: spills	none	unknown	CT DEP, 1986d

SITE ACTIVITY/HISTORY

P + M Realty Inc. of Monroe, Connecticut owns the building and property used by Bridgeport Name Plate Inc. Previous owners of the property could not be determined from available file information. Bridgeport Name Plate Inc. operated on the property between 1974 and 1988 (CT DEP, 1980; 1986d; 1988).

Bridgeport Name Plate Inc. manufactured nameplates, dials, and signs, mostly on aluminum (CT DEP, 1980; 1986d). The metal pieces were shaped, anodized, etched, sealed, cleaned, and painted. The anodizing, etching, and sealing processes are described below.

<u>Process</u>	<u>Description</u>	<u>Waste Stream</u>
Anodizing	The anodizing process converts the surface of the metal to a protective oxide layer. The metal is immersed in an alkaline cleaner or in a phosphoric acid solution. The aluminum is then immersed in sulfuric and chromic acid and rinsed.	aluminum sulfate, chromium, cyanide, phosphorus, sulfuric acid, zinc, magnesium, titanium
Etching	Etching is used to improve the surface or create a pattern on the metal. Areas not etched are masked. The metal is dipped in acid and then into the etching solution.	chromium, copper, cyanide, fluoride, iron, phosphorus, tin and zinc.
Sealing	Anodic coatings on aluminum are sealed in chromic acid or potassium dichromate solution. Uncoated areas, such as those areas colored or dyed, are sealed in a nickel acetate solution.	aluminum, chromic acid, potassium dichromate, ammonium acid, fluoride, sodium dichromate, organic dyes, nickel acetate

(US EPA, 1981)

The pieces were also painted, silk-screened, or inked, to put the image on the metal pieces.

Some data are available on the waste stream from Bridgeport Name Plate Inc.; however, the results are not quantified (CT DEP, 1988; Attachment B). Analysis of the waste stream from the anodizing waste water conducted between 1983 and 1988 indicated that it contained the following: aluminum, ammonia, cadmium, chromium, copper, iron, lead, nickel, tin, and zinc (Attachment B). The dry well was emptied once prior to 1980, and it was also emptied in 1985 (CT DEP, 1980; 1985; 1986d). The dry well was removed sometime in 1985 although the exact date could not be determined from available file information (CT DEP, 1986d). The underground storage tank was installed in 1985 and it could not be determined from available file information if the underground storage tank had ever been emptied (CT DEP, 1986b; 1986d; 1988). In 1988, the storage tank was full and the pipe leading to it from the production building was plugged (CT DEP, 1988). The dry well and the storage tank overflowed on several occasions (CT DEP, 1980; NUS/FIT, 1990). The overflow flowed southeast to the pond and wetlands (Figure 2). The neighboring property owner reportedly complained that the overflow crossed his driveway (identified as such in Figure 2) and was "rotting the tires" on his trucks (NUS/FIT, 1990). Table 2 is a list of all known identified waste types, including quantities, volumes, or areas, types of source areas, and years of disposal.

TABLE 2
HAZARDOUS WASTE QUANTITY
BRIDGEPORT NAME PLATE INC.

WASTE TYPE	QUANTITY	VOLUME/ AREA	YEARS OF DISPOSAL	SOURCE AREA	REFERENCE
anodizing wastewater: alkaline detergent caustic cleaner sulfuric acid anodize	unknown unknown	4,900 gallons unknown	1985-1988 1974-1985	underground storage tank dry well	CT DEP, 1986d CT DEP, 1980
sealant: nickel acetate	unknown 600 gal/yr	4,900 gallons unknown	1985-1988 1974-1985	underground storage tank dry well	CT DEP, 1986d CT DEP, 1980
hot dip/caustic etching: hydrochloric acid ferric chloride sodium hydroxide	unknown 300 gal/yr	4,900 gallons unknown	1985-1988 1974-1985	underground storage tank dry well	CT DEP, 1986d CT DEP, 1980
contaminated soil	1	10 cu. yd.	1985-1988	pile	CT DEP, 1986c
photographic wastes	125 gal/yr	unknown	1974-1988	septic system	CT DEP, 1980
black dye	unknown	100 sq. ft.	1980	ground	CT DEP, 1980
green salts	unknown	6 sq. ft.	1980	ground	CT DEP, 1980
unknown	unknown	unknown	unknown	floor drains	CT DEP, 1986b

cu. yd = cubic yards gal/yr = gallons per year sq. ft. = square feet

NOTE:

Years of disposal for process wastes are assumed to have been in use over the lifetime of activities on the property unless otherwise indicated in the reference. Spills are assumed to be a one time event and only the year that the spill or stain was reported is recorded.

An inventory of the building was conducted in 1988 (CT DEP, 1988; Attachment E). The inventory includes many unlabeled containers and several spills, stains, and sludge on the floor of the building. Since the integrity of the floor of the building is unknown and floor drains were present, this could be another source of contamination. Floor drains in the building were temporarily sealed in 1986 (CT DEP, 1986b). It could not be determined from available file information where the floor drains discharged to or how long they were in use. Waste storage in drums and other containers was reported in prior inspections of the property (CT DEP, 1980; 1986b; 1986d). Because of Bridgeport Name Plate Inc.'s waste handling practices, two orders were issued to them by the Connecticut Department of Environmental Protection (CT DEP).

Bridgeport Name Plate Inc. was ordered "to install proper facilities for the treatment and/or disposal of all wastewater," by February 1982 (CT DEP, 1981). The CT DEP issued another order to Bridgeport Name Plate Inc. in 1986 to remove and dispose of all hazardous and industrial waste on the property and to bring their waste handling procedures into compliance with state regulations (CT DEP, 1986f).

The only onsite work conducted on the property was the removal of the dry well. The date of removal could not be determined from available file information, but it probably occurred in 1985 (CT DEP, 1986d). Some of the excavated soil was not removed from the property as late as 1988 (CT DEP, 1988). No piles of soil were observed by NUS/FIT during the onsite reconnaissance conducted in May 1990 (NUS/FIT, 1990).

Bridgeport Name Plate Inc. was a RCRA (Resource Conservation and Recovery Act) non-notifier (CT DEP, 1986c; 1986e).

ENVIRONMENTAL SETTING

Bridgeport Name Plate Inc. is located in a rural area of Monroe, Connecticut (CT OPM, 1987). The closest occupied residence is located approximately 500 feet south of the property (NUS/FIT, 1990). Since the area is not served by municipal water, this residence also has the closest private ground water supply not including the Bridgeport Name Plate Inc. property. Each of the buildings owned by P + M Realty, Inc. are also supplied by their own private well located on the property (CT DEP, 1980; NUS/FIT, 1990).

The bedrock underlying the property is mapped as the Newtown Gneiss (Crowley, 1968). The bedrock is described as a medium grained, poorly foliated, massive gneiss. No structural features, faults or folding, are noted near the property (Crowley, 1968).

Soil on the property is mapped as the Charlton fine sandy loam (Wolf, 1981). The soil is formed in loamy glacial till and is well-drained and deep. Depth to bedrock is usually greater than 5 feet. The depth to groundwater in the Charlton soil is generally greater than 6 feet. The groundwater in the area is classified as GAA (CT DEP, 1986c; 1987a). The designated use for this classification is for existing or potential public drinking water supply (CT DEP, 1987b).

Only the towns of Monroe and Newtown are located within 4 miles of the property. Table 3 lists all public water supply sources using groundwater within 4 miles of the property. The table also includes private or community water systems; these systems have at least two connections or serve more than 25 people (CT DEP, 1986a). Table 4 lists the population within 4 miles of the property that use private groundwater supply sources. For the purposes of this report no distinction is made between the population living within the town but outside 4 miles of the property. The total population within 4 miles of the property served by public and private groundwater drinking water supplies is estimated at 28,920 persons.

Bridgeport Name Plate Inc. is located in the Housatonic River drainage basin (CT DEP, 1982). The property is on a hillside and runoff flows southeastward to wetlands and a small pond (Figures 1 and

TABLE 3
MUNICIPAL AND COMMUNITY GROUNDWATER SUPPLY SOURCES
WITHIN 4 MILES OF BRIDGEPORT NAME PLATE INC.

TOWN(S) SERVED	SOURCE NAME	APPROXIMATE DISTANCE/DIRECTION FROM BRIDGEPORT NAME PLATE INC.	ESTIMATED POPULATION SERVED	NUMBER OF WELLS
Monroe	BHC Main & Seymour Systems: * Lakewood Well Stepney Well	1.5 miles/south 3 miles/south	3,200	1 1
Newtown	Bay Colony Mobile Home Park	2 miles/northwest	135	1
Newtown	Chestnut Tree Hill	2 miles/northwest	192	4
Newtown	Buckingham Gardens Conv. Home	2 miles/northwest	N/A	1
Newtown	Fairfield Hills Hospital	3.5 miles/northwest	700	3

Approximate Population using municipal and community water
systems within 4 miles of Bridgeport Name Plate Inc.:

4,227

NOTE:

- * The Lakewood and Stepney wells are secondary systems and supply water only for emergency usage. The two wells serve only the town of Monroe.

N/A Not Available

Community Water Systems are defined as water systems with at least two connections or serving more than 25 residents.

REFERENCES:

CT DEP, 1982; 1986a; Landsman, 1991

TABLE 4
PRIVATE WELL USERS WITHIN 4 MILES OF
BRIDGEPORT NAME PLATE INC.

TOWN	POPULATION	POPULATION USING PRIVATE WELLS	PERCENT POPULATION USING PRIVATE WELLS
Monroe	16,280	9,910	60.9%
Newtown	20,370	14,783	72.6%

Approximate population using private wells:

24,693

Approximate population using groundwater resources
within 4 miles of Bridgeport Name Plate Inc. (Table 3):

4,227

Total population using groundwater resources:

28,920

REFERENCES:
CT DEP, 1986a

2) (NUS/FIT, 1990). Drainage from the wetlands and pond is to Sammis Brook and then into Halfway River. Halfway River flows into the Housatonic River; the Housatonic River is approximately 4.5 miles downstream from the property (USGS, 1972; 1984b).

No drinking water supplies are located along potential surface water migration pathways (CT DEP, 1982). There are however wells along the Housatonic River that may be hydraulically connected to the surface water (Wilson et al, 1974). The wells are used by BHC and the Ansonia-Derby Water Company and are within 15 miles downstream of the property (CT DEP, 1982; USGS, 1972; 1975; 1984a; 1984b).

The Housatonic River is classified as a C and a D river within 15 miles downstream of the property (CT DEP, 1987a). Designated uses of a class D Rivers are bathing or other recreational uses, fish and wildlife habitat, industrial and other legitimate uses; the river may have good aesthetic value. One or more designated uses on a class D river are severely inhibited or precluded (CT DEP, 1987b). Designated uses on a class C river are the same as a class D. One or more designated uses on a class C river are only impaired. Sammis Brook and Halfway River are not classified and therefore are considered class A waters (CT DEP, 1987b). Designated uses on a class A river are not impaired.

Approximately 215 acres of wetlands are located within 1 mile of Bridgeport Name Plate Inc. (FWS, No Date a; No Date b). Fifteen acres of those wetlands are located along potential surface water migration pathways. The wetlands are all mapped as palustrine systems either forested, scrub/shrub, or both.

RESULTS

Personnel from the CT DEP Water Compliance Unit collected a composite soil sample from the Bridgeport Name Plate Inc. property in May 1986. The sample was collected from a pile of soil excavated from the dry well several years before. The sample was analyzed for total metals, extraction procedure toxicity (EP toxicity), and for hydrocarbon and organohalides. The soil sample contained aluminum (4,800 mg/l), cadmium (0.50 mg/l), chromium (68 mg/l), copper (73 mg/l), lead (12 mg/l), zinc (12 mg/l), toluene (3 ug/l), and ethylbenzene and mixed xylenes (95 ug/l). While no background soil sample was collected in May 1986, the concentration of chromium (68 mg/l) in the soil sample was greater than 4 times the background concentration in May 1990. Results are reported in Attachment A.

Wastewater and sludge from Bridgeport Name Plate Inc. was analyzed in 1983 for total metals, cyanide, oil and grease, and hydrocarbons. In 1986, the anodizing wastewater stream was analyzed by the EP toxicity method for metals. Six metals were detected, including: cadmium (0.08 mg/l), chromium (8.8 mg/l), copper (45.0 mg/l), lead (6.4 mg/l), nickel (41 mg/l), and zinc (5.0 mg/l). Results for these analyses are reported in Attachment B.

On May 7, 1990, NUS/FIT personnel collected eight soil samples on the Bridgeport Name Plate Inc. property (Figure 2; Table 5). The eight samples included one background, one replicate/duplicate, and one trip blank. Samples collected were analyzed for volatile organic compounds, extractable organic compounds, and inorganic elements through the Contract Laboratory Program (CLP). The trip blank was not analyzed for inorganic elements. Volatile and extractable results are reported in Attachment C, Tables 1 and 2, respectively. Inorganic results are reported in Attachment C, Table 3. Analytical detection limits are reported in Attachment D, Tables 1-3. Sample results qualified by a "J" on the analytical tables are considered approximate because of limitations identified during the quality control review. In addition, sample results reported at concentrations below the reliable quantitation limits are qualified by a "J" and are considered approximate.

A Sample Results Summary Table (Table 6) has been included in the text for samples collected by NUS/FIT. Presented in this table are compounds and elements which were identified in the samples

TABLE 5
SAMPLE SUMMARY
BRIDGEPORT NAME PLATE INC.
MONROE, CONNECTICUT

Samples collected by NUS/FIT on May 7, 1990*

Sample Location #	NUS/FIT Sample #	Sample Type/ Sample Depth	Sample Source and Location
Soil Samples:			
SS-01	23439	Grab	Blank for Quality Control.
SS-02	23440	Composite 12 inches	Onsite background sample, 73 feet S35°W from the southwest corner of the building.
SS-03	23441	Grab 6 to 8 inches	66 feet S10°W from the southeast corner of the building.
SS-04	23442	Grab 6 inches	65 feet S10°E from the southeast corner of the building.
SS-05	23444	Grab 4 to 5 inches	24.2 feet S20°W from CL&P pole No. 215.
SS-05R/D	23443	Grab 4 to 5 inches	Replicate of SS-05 for volatile organic analysis, and duplicate of SS-05 for semi-volatile and inorganic analyses.
SS-06	23445	Grab 8 inches	25.8 feet S60°E from CL&P pole No. 215.
SS-07	23446	Grab 5 inches	21.2 feet S70°W from the southeast corner of the building.

* Sample locations depicted on Figure 2.

TABLE 6
SAMPLE SUMMARY RESULTS TABLE
BRIDGEPORT NAME PLATE INC.
SAMPLES COLLECTED MAY 7, 1989

LOCATION	ELEMENT	CONCENTRATION	ATTACHMENT/ TABLE	COMMENTS
SS-03	diethylphthalate	320 J ppm	C 2	> 4 times BKG
	fluoranthene	440 J ppm	C 2	> 4 times BKG
	copper	160.00 ppm	C 3	3 times BKG
	anthracene	45 J ppm	C 2	Detected
	indeno(1,2,3-cd)pyrene	70 J ppm	C 2	Detected
	phenanthrene	290 J ppm	C 2	Detected
SS-04	fluoranthene	610 ppm	C 2	> 5 times BKG
	benzo(g,h,i)perylene	99 J ppm	C 2	Detected
	phenanthrene	70 J ppm	C 2	Detected
SS-05	chromium	45.40 ppm	C 3	3 times BKG
	phenanthrene	68 J ppm	C 2	Detected
SS-05R/D	phenanthrene	41 J ppm	C 2	Detected
SS-06	copper	733.00 ppm	C 3	>23 times BKG
	chromium	205.00 ppm	C 3	>13 times BKG
	nickel	105.00 ppm	C 3	> 9 times BKG
	fluoranthene	640 ppm	C 2	> 5 times BKG
	benzo(a)pyrene	300 J ppm	C 2	> 3 times BKG
	pyrene	540 ppm	C 2	> 3 times BKG
	acenaphthylene	76 J ppm	C 2	Detected
	anthracene	51 J ppm	C 2	Detected
	benzo(g,h,i)perylene	150 J ppm	C 2	Detected
	bis(2-ethylhexyl)phthalate	1,200 ppm	C 2	Detected
	butylbenzylphthalate	410 J ppm	C 2	Detected
	di-n-butylphthalate	57 J ppm	C 2	Detected
	endosulfan sulfate	29 ppm	C 2	Detected
	indeno(1,2,3-cd)pyrene	160 J ppm	C 2	Detected
	phenanthrene	270 J ppm	C 2	Detected
SS-07	bis(2-ethylhexyl)phthalate	38 J ppm	C 2	Detected

ppm - parts per million

BKG - Background sample concentration

Detected - Compound was detected in the sample but not in the background sample and its concentration does not exceed the background quantitation level.

with concentrations exceeding 3 times the background (BKG) sample concentration for that compound or element. Where the compound of interest was not identified in the background, it is listed in the table as either having a concentration exceeding 3 times the background sample quantitation limit (BKQL), or detection limit (BKDL), or as being detected.

Chromium, copper, or nickel were detected at concentrations greater than 3 times the background concentration at sample locations SS-03, SS-05, and SS-06. These three elements were also found in the wastewater and sludge from Bridgeport Name Plate Inc. and in soil excavated from around the dry well. Several extractable organic compounds were also detected in all the soil samples. The highest concentrations and the greatest number of compounds were detected at location SS-06. SS-06 is located downslope from the dry well and underground storage tank (Figure 2).

Table 7 is a summary of the uses of the extractable organic compounds found at Bridgeport Name Plate Inc. Organic dyes are noted in the sealing process waste stream (US EPA, 1981). The following compounds have also been detected in the raw wastewater stream from metal finishing plants: phthalates (diethyl, bis (2-ethylhexyl), and butylbenzyl), fluoranthene, anthracene, phenanthrene, and pyrene (US EPA, 1983).

SUMMARY

Bridgeport Name Plate Inc., located in Monroe, Connecticut, manufactured nameplates, dials, and signs from 1974 to 1988. Process wastes were discharged to a dry well, holding tank, septic tank, and onto the ground. Bridgeport Name Plate Inc. went out of business in 1988.

From 1974 to 1983 some process wastes were disposed of in a dry well and from 1983 to 1988 the wastes were disposed of to an underground storage tank. Both disposal systems frequently overflowed and the wastes flowed southeastward to a nearby pond and wetlands. Personnel from the Connecticut Department of Environmental Protection observed two areas of stained soil on the property in 1986.

Elements detected in the waste streams from Bridgeport Name Plate Inc. were detected in soil samples collected by the CT DEP in 1986 and in soil samples collected by NUS/FIT in 1990. The highest concentrations of metals were detected in the 1990 soil sample collected immediately downgradient of the dry well.

Potential receptors to wastes disposed of on the property include groundwater, surface water, wetlands, and soil. The area within 1 mile of the property is not served by a water utility and residents are therefore dependent on individual private water supplies. The closest wells used for drinking water are located on the property. Five municipal or community water systems serving an estimated 4,227 people use groundwater supplies located within 4 miles of the property. Approximately, an additional 24,693 residents use private groundwater supplies also located within 4 miles of the property.

Wastes from the property reportedly flowed into the wetlands located near the southwest corner of the property. These wetlands drain into the Sammis Brook and then into Halfway River, both Class A rivers. No drinking water supplies are known along the surface water migration pathway.


TABLE 7
USE OF EXTRACTABLE ORGANIC COMPOUNDS
DETECTED IN SOIL SAMPLES FROM
BRIDGEPORT NAME PLATE INC.

COMPOUND	USE	REFERENCE
acenaphthylene	dyes, insecticide, fungicide, plastics	Patty, 1981b
anthracene	dyes, coal tar derivative	Patty, 1981b
endosulfan sulfate	insecticide	Sax and Lewis 1987
fluoranthene	coal tar derivative	Sax and Lewis, 1987
perylene	coal tar derivative	Windholz, 1976
phenanthrene	coal tar derivative	Sax and Lewis, 1987
Phthalates:		
diethyl	plasticizer	Patty, 1981a
bis(2-ethylhexyl)	plasticizer	Patty, 1981a
butylbenzyl	plasticizer	Sax and Lewis, 1987
di-n-butyl	plasticizer	Sax and Lewis, 1987
Pyrenes:		
benzo(a)pyrene	coal tar, incomplete combustion	Sax and Lewis, 1987
pyrene	coal tar	Sax and Lewis, 1987

NUS/FIT recommends that a Listing Site Inspection be conducted at Bridgeport Name Plate Inc. This recommendation is made because of the documented waste disposal on the property by Bridgeport Name Plate Inc., and the extensive use of groundwater within 4 miles of the property.

Submitted by:


Michael Landsman
Project Manager

Approval: 
Robert Jubach
FIT Office Manager

ML:aa

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LIST OF ATTACHMENTS

ATTACHMENT A

TABLE 1: SOIL SAMPLE ANALYTICAL RESULTS
CONNECTICUT DEPARTMENT OF HEALTH SERVICES
COLLECTED MAY 6, 1986

ATTACHMENT B

TABLE 1: INDUSTRIAL WASTE AND SLUDGE SAMPLE
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOVEMBER 3, 1983

TABLE 2: ANODIZING WASTEWATER SAMPLE
CONNECTICUT DEPARTMENT OF HEALTH SERVICES
COLLECTED JUNE 10, 1990

ATTACHMENT C

TABLE 1: SOIL SAMPLE VOLATILE ORGANIC ANALYTICAL RESULTS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990

TABLE 2: SOIL SAMPLE EXTRACTABLE ORGANIC ANALYTICAL RESULTS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990

TABLE 3: SOIL SAMPLE INORGANIC ANALYTICAL RESULTS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990

ATTACHMENT D

TABLE 1: SOIL SAMPLE VOLATILE ORGANIC QUANTITATION LIMITS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990

TABLE 2: SOIL SAMPLE EXTRACTABLE ORGANIC QUANTITATION LIMITS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990

TABLE 3: SOIL SAMPLE INORGANIC DETECTION LIMITS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990

ATTACHMENT E

TABLE 1: "BRIDGEPORT NAMEPLATE," MEMO TO THE FILE FROM H. WILLIAMS
(CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION), DATED
AUGUST 18, 1988. (CT DEP, 1988)

ATTACHMENT A

**TABLE 1: SOIL SAMPLE ANALYTICAL RESULTS
CONNECTICUT DEPARTMENT OF HEALTH SERVICES
COLLECTED MAY 6, 1986**

SAMPLES OF SEWAGE OR TRADE WASTE

MAY 6 9 51 PM '86

To be filled in by person collecting samples

From Bridgeport Name Plate Co. In town of Monroe

104988

Sample of sewage (), trade waste (), sludge (), or soil (removed from dry well area)

Name of treatment plant

Owned by

Plant processes or treatment

RECEIVED

MAY 21 1986

WATER COMPLIANCE
Dept. of Environmental Protection

1990

Collected by Edward Finger, Senior Field Inspector On 5/06/86NUS CORPORATION
REGION #1

Report to

Shipped on

SENT TO

Laboratory Number	Collector's Number	Sample of	Collected From	Composite		Time of Collection
				Yes or No	Min. Apart	
13351	#1	soil	soil removed from dry well	yes		~ 1100
2201 3351 -6						

No. and Kind of Bottles 3BB (1 total metal, 1 - EPT toxicity, 1 - HC's & organohalides)

OL-33 Rev. 10-82

Phase:

Director

Total metals Al, Cd, Cr, Cu, Pb, Sn, Zn

EPT toxicity Al, Cd, Cr, Cu, Pb, Sn, Zn

Hydrocarbon & Organohalides

ATTACHMENT B

**TABLE 1: INDUSTRIAL WASTE AND SLUDGE SAMPLE
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOVEMBER 3, 1983**

**TABLE 2: ANODIZING WASTEWATER SAMPLE
CONNECTICUT DEPARTMENT OF HEALTH SERVICES
COLLECTED JUNE 10, 1986**

SEWAGE / WASTE
DEP WATER COMPLIANCE
ENFORCEMENT
122 WASHINGTON
HARTFORD

CT 06106

MONROE
BRI PORT NAME PLAT
MONROE
MAY 23 1986

COLLECTED	RECEIVED	REPORTED
05/06/86 11:00	05/06/86 13:49	05/15/86 12:13

FINAL REPORT

COMMENT:

TEST

RESULT

ACCEPTABLE RANGE

LOW

ACCEPTABLE RANGE

HIGH

INFORMATION RECEIVED ON ARRIVAL
(SAMPLE OF: TRADE WASTE)
(NAME OF TREATMENT PLANT:)
(OWNED BY:)
(PLANT PROCESSES OR TREATMENT:)
(COLLECTED BY: EDWARD FINGER TITLE: SR FIELD INSPECTOR)
(COMPOSITE: YES)
(NO. & KIND OF BOTTLES: 1 BB)

(CONCENTRATIONS ARE IN UG/KG)
(NR:1 SOIL SAMPLE 67)
LUENE 3 UG/L
4YLBZ&MIXED XYL'S 95 UG/L
(ELUTION PATTERN IS THAT OF A TRACE LEVEL OF EARLY ELUTING)
(COMPONENTS CHARACTERISTICALLY FOUND IN ORGANIC MEDIA)
((I.E. SOIL) PLUS THE CONTAMINANTS LISTED ABOVE.)
(SAMPLE 67707 COLL 1)
(SEE RESULTS FOR SAMPLE # 67706)
*** THIS IS A FINAL REPORT. ***

29038-290
 29038-290

OR IDENTIFYING CODE NO. ridgeport waste water TOWN Monroe 85
 DATE 8/3/83 TIME START 10:20 TIME END 11:30
 DEPT NO 29038 MEASURED 29040 MEASURED 29040 SPECIAL NOTE 11-3-83
 COLLECTOR M. Carmichael REVIEWED BY BK

LABORATORY NUMBER		DSN OR LOCATION		DSN OR LOCATION		DSN OR LOCATION	
PARAMETER	NO.	DSN OR LOCATION		DSN OR LOCATION		DSN OR LOCATION	
PH	609	2nd waste		Sludge			
ACIDITY, PH 8.2	601	7.5					
ALKALINITY, PH 4.5	602						
SOLIDS, TOTAL	618	4800.					
SOLIDS, FIXED	619	4100.					
SOLIDS, VOLATILE	616	700.					
SOLIDS, SUSPENDED	614	2300.					
SOLIDS, DISSOLVED	613						
SOLIDS, SETTLE (ML/L)	610	240.					
ALUMINUM (AL) TOTAL	101	790.		6700.			
CADMIUM (cd) TOTAL	107	0.02		0.12			
CHROMIUM, TOTAL	109	9.6		64.			
CHROMIUM (Cr+6) TOTAL	108						
COPPER (CU) TOTAL	111	19.		79.			
IRON (Fe) TOTAL	113	14.		46.			
LEAD (Pb) TOTAL	114	0.59		8.2			
NICKEL (Ni) TOTAL	119	3.9		56.			
SILVER (Ag) TOTAL	122						
IN (Sn) TOTAL	124	1.2		14.			
INC (Zn) TOTAL	127	3.2		10.			
FLUORIDE	502						
FLUORINE RESIDUAL	503						
CYANIDE (CN) TOTAL	505	0.08					
CYANIDE AMENABLE TO CHLORINATION	504	0.00					
CHLORIDE	506						
AMMONIA NITROGEN	202						
TOTAL N	201						
STRATE as N	203						
PHOSPHATE as P	207						
PHOSPHOROUS-T as P	208						
SULFATE as SO ₄	507						
SULFIDE as S	509						
5 day 20° c	301						
DO	303						
	603						
	306						
8 GREASE TOTAL	701	75.					
OIL & GREASE	710	29039		29040			
FACTANTS ABS	704						
PROCARBONS							
MINERAL OILS							
ICIDES							
NOLS	702						

Handwritten signatures and initials:
 B. J. K. (Bryant)
 P. E. P.

Handwritten notes:
 specific hydrocarbons on both ind waste + sludge
 11/11/83

DRY METHOD USED - (GC purge & trap) (GC Extraction) (GS/MS) (GC Fingerprinting)
 anal space on hydrocarbon analysis attach separate report

A. S. COLLINS

STATE OF CONNECTICUT
DEPARTMENT OF HEALTH SERVICES

LABORATORY DIVISION

10 CLINTON STREET

P.O. BOX 1088, HARTFORD, CT 06101 JUN 10 2 17 PM '86

PHONE 866-8838

463 I022 W192, W185, W109

464 I022 W192, W185, W109

SAMPLE

INVOICE

SAMPLES OF SEWAGE OR TRADE WASTE

PRIORITY/

To be filled in by person collecting samples

From Bpt. Nampstate in town of Monroe 85

Sample of sewage (), trade waste (X), sludge (), or

Name of treatment plant

Owned by

Plant processes or treatment

Collected by Paul Hassler On 6/10/86

Report to Patrick Bove DEP: Haz Waste Shipped on Root 13 122 Washington St. Hartford 565-8873-2811

Laboratory Number	Collector's Number	Sample of	Collected From	Composite		Time of Collection
				Yes or No	Min. Apert	
15462	4629	acidizing wastewater	tank, top	NO	-	11:40
15464	4630	acidizing wastewater	tank, bottom	NO	-	11:45
2201 5463 -7						
2201 5464 -5						

RECEIVED
JUN 23 1986

HAZARDOUS MATERIALS
MANAGEMENT UNIT

No. and Kind of Bottles 2 BB's

GL-23 Rev. 10-83

Signature

please analyze pH and perform EP Toxicity
for heavy metals and Ni.

SPECIAL EXAMINATIONS

Tel. 566-6626

10 Clinton Street

	15463	15464		
Reported as MG/L				
Color				
Odor				
pH	4.4	5.0		
Total Solids	MG/L	MG/L		
Fixed	liquid	liquid		
Volatile				
Total dissolved solids				
Total suspended solids				
Alkalinity as CaCO ₃				
Chlorides as Cl				
Cyanide as CN				
Amenable CN				
Detergent as ABS				
Fluoride as F				
Grease				
Aluminum as Al				
Arsenic as As				
Cadmium as Cd	0.05	0.08		
Chromium as Cr	2.1	8.8		
Chromium + 6				
Copper as Cu	15.	45.		
Iron as Fe				
Lead as Pb	1.9	6.4		
Manganese as Mn				
Mercury as Hg				
Nickel as Ni	11.	41.		
Silver as Ag				
Tin as Sn				
Zinc as Zn	2.5	5.0		
Ammonia as .N				
TKN				
Organic .N				
Nitrite .N				
Nitrate .N				
C.O.D.				
B.O.D.				
D.O.				
Phenol				
Phosphate as P				
Ortho phosphate				
Sulfate as So ₄				
Sodium as Na				
Barium as Ba				
Selenium as Se				
Flashpoint				

RECEIVED
JUN 23 1986
HAZARDOUS MATERIALS
MANAGEMENT UNIT

Jesse S. Tucker, Ph.D
Director

ATTACHMENT C

**TABLE 1: SOIL SAMPLE VOLATILE ORGANIC ANALYTICAL RESULTS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990**

**TABLE 2: SOIL SAMPLE EXTRACTABLE ORGANIC ANALYTICAL RESULTS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990**

**TABLE 3: SOIL SAMPLE INORGANIC ANALYTICAL RESULTS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990**

TABLE 1 PAGE 1 OF 1
BRIDGEPORT NAME PLATE, INC.
MAY 7, 1990
CLP VOLATILE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05R	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR445	AR446
Remarks	BLANK	BACKGROUND			REPLICATE			
Sampling Date	05-06-90	05-07-90	05-07-90	05-07-90	05-07-90	05-07-90	05-07-90	05-07-90
Analysis Date	05-10-90	05-10-90	05-10-90	05-10-90	05-10-90	05-10-90	05-11-90	05-11-90
VOLATILE ORGANIC COMPOUND								
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Methylene Chloride								
Acetone	34 J							
Carbon Disulfide								
1,1-Dichloroethene								
1,1-Dichloroethane								
1,2-Dichloroethene (Total)								
Chloroform								
1,2-Dichloroethane								
2-Butanone								
1,1,1-Trichloroethane								
Carbon Tetrachloride								
Vinyl Acetate								
Bromodichloromethane								
1,2-Dichloropropane								
cis-1,3-Dichloropropene								
Trichloroethene								
Dibromochloromethane								
1,1,2-Trichloroethane								
Benzene								
trans-1,3-Dichloropropene								
Bromoform								
4-Methyl-2-pentanone								
2-Hexanone								
Tetrachloroethene								
1,1,2,2-Tetrachloroethane								
Toluene								
Chlorobenzene								
Ethylbenzene								
Styrene								
Xylene (Total)								
Total VOC Concentration (ug/Kg)	34 J							

A blank space indicates the compound was not detected.

Sample results are reported on a dry weight basis.

J Quantitation is approximate due to limitations identified during the quality control review.

Sample Quantitation Limits for the compounds listed above are reported in Attachment D Table 1.

TABLE 2 PAGE 1 OF 3
BRIDGEPORT NAME PLATE, INC.
MAY 7, 1990
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05D	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			DUPLICATE			
Sampling Date	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90
Extraction Date	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90
Analysis Date	05/23/90	05/24/90	05/24/90	05/22/90	05/22/90	05/22/90	05/22/90	05/22/90
SEMI-VOLATILE COMPOUND								
Phenol								
bis (2-Chloroethyl) ether								
2-Chlorophenol								
1,3-Dichlorobenzene								
1,4-Dichlorobenzene		61 J	58 J	53 J	54 J	46 J	72 J	58 J
Benzyl Alcohol								
1,2-Dichlorobenzene								
2-Methylphenol								
bis (2-Chloroisopropyl) ether								
4-Methylphenol								
N-Nitroso-di-n-propylamine								
Hexachloroethane								
Nitrobenzene								
Isophorone								
2-Nitrophenol								
2,4-Dimethylphenol								
Benzoic acid								
bis (2-Chloroethoxy) methane								
2,4-Dichlorophenol								
1,2,4-Trichlorobenzene								
Naphthalene								
4-Chloroaniline								
Hexachlorobutadiene								
4-Chloro-3-methylphenol								
2-Methylnaphthalene								
Hexachlorocyclopentadiene								
2,4,6-Trichlorophenol								
2,4,5-Trichlorophenol								
2-Chloronaphthalene								
2-Nitroaniline								
Dimethylphthalate								
Acenaphthylene								
2,6-Dinitrotoluene							76 J	

TABLE 2 PAGE 2 OF 3
BRIDGEPORT NAME PLATE, INC.
MAY 7, 1990
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05D	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			DUPLICATE			
Sampling Date	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90
Extraction Date	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90
Analysis Date	05/23/90	05/24/90	05/24/90	05/22/90	05/22/90	05/22/90	05/22/90	05/22/90
SEMI-VOLATILE COMPOUND								
3-Nitroaniline								
Acenaphthene								
2,4-Dinitrophenol								
4-Nitrophenol								
Dibenzofuran								
2,4-Dinitrotoluene								
Diethylphthalate		72 J	320 J	50 J			99 J	96 J
4-Chlorophenyl-phenylether								
Fluorene								
4-Nitroaniline								
4,6-Dinitro-2-methylphenol								
N-Nitrosodiphenylamine								
4-Bromophenyl-phenylether								
Hexachlorobenzene								
Pentachlorophenol								
Phenanthrene			290 J	250 J	41 J	68 J	270 J	
Anthracene			45 J				51 J	
Di-n-butylphthalate							57 J	
Fluoranthene		110 J	440 J	610	110 J	140 J	640	56 J
Pyrene		150 J	320 J	440	84 J	110 J	540	48 J
Butylbenzylphthalate							410 J	
3,3'-Dichlorobenzidine								
Benzo(a)anthracene		130 J	160 J	210 J	43 J	49 J	230 J	
Chrysene		160 J	190 J	280 J	53 J	58 J	310 J	
bis(2-Ethylhexyl)phthalate							1,200	38 J
Di-n-octyl phthalate								
Benzo(b)fluoranthene		140 J	130 J	240 J		45 J	380 J	
Benzo(k)fluoranthene		110 J	140 J	170 J		37 J	210 J	
Benzo(a)pyrene		78 J	110 J	180 J		42 J	300 J	
Indeno (1,2,3-cd)pyrene			70 J				160 J	
Dibenz(a,h)anthracene								
Benzo(g,h,i)perylene				99 J			150 J	

TABLE 2 PAGE 3 OF 3
BRIDGEPORT NAME PLATE, INC.
MAY 7, 1990
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05D	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			DUPLICATE			
Sampling Date	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90	05/07/90
Extraction Date	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90	05/10/90
Analysis Date	06/09/90	06/09/90	06/10/90	06/10/90	06/10/90	06/10/90	06/07/90	06/10/90
PESTICIDE/PCB COMPOUND								
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC (Lindane)								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT							29	
Methoxychlor								
Endrin ketone								
alpha-Chlordane								
gamma-Chlordane								
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

A blank space indicates the compound was not detected.

Sample results are reported on a dry weight basis.

J Quantitation is approximate due to limitation identified during the quality control review.

Sample Quantitation: Limits for the compounds listed above are reported in Attachment D Table 2.

TABLE 3 PAGE 1 OF 1
BRIDGEPORT NAME PLATE INC.
MAY 7, 1990
CLP INORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (mg/Kg)

Sample Location		SS-02	SS-03	SS-04	SS-05	SS-05D	SS-06	SS-07
Sample Number		23440	23441	23442	23444	23443	23445	23446
Traffic Report Number		MAP908	MAP909	MAP910	MAP912	MAP911	MAP913	MAP914
Remarks		BACKGROUND				DUPLICATE		
INORGANIC ELEMENTS								
Aluminum	P	16600.00	18900.00	12000.00	14000.00	13400.00	21100.00	9610.00
Antimony	P		3.80 J		3.10 J	3.00 J		
Arsenic	F	19.10 J	7.70 J	8.30 J	8.50 J	8.80 J	10.70 J	12.90 J
Barium	P	37.00	43.70	32.10	35.80	34.50	35.10	32.30
Beryllium	P	0.73	0.76	0.87	0.61	0.63	1.00	0.62
Cadmium	P							
Calcium	P	995.00	590.00	1450.00	1090.00	1020.00	1860.00	1410.00
Chromium	P	14.90	23.60	13.70	45.40	37.10	205.00	15.00
Cobalt	P	7.40	6.60	6.30	8.70	7.40	5.70	8.10
Copper	P	31.30	160.00	11.00	32.20	31.90	733.00	46.80
Iron	P	17700.00 J	19800.00 J	14800.00 J	16700.00 J	15900.00 J	12900.00 J	13000.00 J
Lead	F	64.70 J	31.80 J	24.10 J	15.50 J	16.30 J	108.00 J	19.10 J
Magnesium	P	3910.00	3620.00	3880.00	5250.00	4740.00	3190.00	3640.00
Manganese	P	271.00	300.00	263.00	245.00	218.00	225.00	233.00
Mercury	CV							
Nickel	P	10.80	12.20	9.20	15.90	15.90	105.00	16.20
Potassium	P	959.00	760.00	1150.00	2150.00	1830.00	1640.00	1520.00
Selenium	F				0.64 J			
Silver	P							
Sodium	P	573.00		104.00			112.00	
Thallium	F							
Vanadium	P	29.80	33.90	26.40	30.70	28.70	22.20	21.70
Zinc	P	79.90 J	50.80 J	49.40 J	41.60 J	40.00 J	63.90 J	32.30 J
Cyanide	C							

Analytical Method
F Furnace AA
P ICP/Flame AA
CV Cold Vapor
C Colorimetric

NOTE: A blank space indicates the element was not detected.
Sample results are reported on a dry weight basis.
J Quantitation is approximate due to limitations identified during the quality control review.
NA Not Analyzed

Sample Detection Limits for the elements listed above are reported in Attachment D Table 3.

ATTACHMENT D

**TABLE 1: SOIL SAMPLE VOLATILE ORGANIC QUANTITATION LIMITS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990**

**TABLE 2: SOIL SAMPLE EXTRACTABLE ORGANIC QUANTITATION LIMITS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990**

**TABLE 3: SOIL SAMPLE INORGANIC DETECTION LIMITS
CONTRACT LABORATORY PROGRAM
COLLECTED MAY 7, 1990**

TABLE 1 PAGE 1 OF 1
BRIDGEPORT NAME PLATE, INC.

MAY 7, 1990

CLP VOLATILE ORGANIC ANALYSIS
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05R	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			REPLICATE			
VOLATILE ORGANIC COMPOUND								
Chloromethane	10	12	13	12	11	11	12	11
Bromomethane	10	12	13	12	11	11	12	11
Vinyl Chloride	10	12	13	12	11	11	12	11
Chloroethane	10	12	13	12	11	11	12	11
Methylene Chloride	5	6	6	6	6	6	6	13
Acetone	34	12	13	12	11	11	12	11
Carbon Disulfide	5 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	5 UJ
1,1-Dichloroethene	5	6	6	6	6	6	6	5
1,1-Dichloroethane	5	6	6	6	6	6	6	5
1,2-Dichloroethene (Total)	5	6	6	6	6	6	6	5
Chloroform	5	6	6	6	6	6	6	5
1,2-Dichloroethane	5	6	6	6	6	6	6	5
2-Butanone	10	12	13	12	11	11	12	11
1,1,1-Trichloroethane	5	6	6	6	6	6	6	5
Carbon Tetrachloride	5	6	6	6	6	6	6	5
Vinyl Acetate	10	12	13	12	11	11	12	11
Bromodichloromethane	5	6	6	6	6	6	6	5
1,2-Dichloropropane	5	6	6	6	6	6	6	5
cis-1,3-Dichloropropene	5	6	6	6	6	6	6	5
Trichloroethene	5	6	6	6	6	6	6	5
Dibromochloromethane	5	6	6	6	6	6	6	5
1,1,2-Trichloroethane	5	6	6	6	6	6	6	5
Benzene	5	6	6	6	6	6	6	5
trans-1,3-Dichloropropene	5	6	6	6	6	6	6	5
Bromoform	5	6	6	6	6	6	6	5
4-Methyl-2-pentanone	10	12	13	12	11	11	12	11
2-Hexanone	10	12	13	12	11	11	12	11
Tetrachloroethene	5	6	6	6	6	6	6	5
1,1,2,2-Tetrachloroethane	5	6	6	6	6	6	6	5
Toluene	5	6	6	6	6	6	6	5
Chlorobenzene	5	6	6	6	6	6	6	5
Ethylbenzene	5	6	6	6	6	6	6	5
Styrene	5	6	6	6	6	6	6	5
Xylene (Total)	5	6	6	6	6	6	6	5

Sample Quantitation Limits are reported on a dry weight basis.

UJ Quantitation Limit is approximate due to limitations identified during the quality control review.

TABLE 2 PAGE 1 OF 3
BRIDGEPORT NAME PLATE, INC.

MAY 7, 1990

CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05D	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			DUPLICATE			
SEMI-VOLATILE COMPOUND								
Phenol	330	420	450	390	370	360	460	360
bis (2-Chloroethyl) ether	330	420	450	390	370	360	460	360
2-Chlorophenol	330	420	450	390	370	360	460	360
1,3-Dichlorobenzene	330	420	450	390	370	360	460	360
1,4-Dichlorobenzene	330	420	450	390	370	360	460	360
Benzyl Alcohol	330	420	450	390	370	360	460	360
1,2-Dichlorobenzene	330	420	450	390	370	360	460	360
2-Methylphenol	330	420	450	390	370	360	460	360
bis (2-Chloroisopropyl) ether	330	420	450	390	370	360	460	360
4-Methylphenol	330	420	450	390	370	360	460	360
N-Nitroso-di-n-propylamine	330	420	450	390	370	360	460	360
Hexachloroethane	330	420	450	390	370	360	460	360
Nitrobenzene	330	420	450	390	370	360	460	360
Isophorone	330	420	450	390	370	360	460	360
2-Nitrophenol	330	420	450	390	370	360	460	360
2,4-Dimethylphenol	330	420	450	390	370	360	460	360
Benzoic acid	1600	2000	2000	1900	1800	1800	2300	1800
bis (2-Chloroethoxy) methane	330	420	450	390	370	360	460	360
2,4-Dichlorophenol	330	420	450	390	370	360	460	360
1,2,4-Trichlorobenzene	330	420	450	390	370	360	460	360
Naphthalene	330	420	450	390	370	360	460	360
4-Chloroaniline	330	420	450	390	370	360	460	360
Hexachlorobutadiene	330	420	450	390	370	360	460	360
4-Chloro-3-methylphenol	330	420	450	390	370	360	460	360
2-Methylnaphthalene	330	420	450	390	370	360	460	360
Hexachlorocyclopentadiene	330	420	450	390	370	360	460	360
2,4,6-Trichlorophenol	1600	420	450	390	370	360	460	360
2,4,5-Trichlorophenol	330	2000	2000	1900	1800	1800	2300	1800
2-Chloronaphthalene	1600	420	450	390	370	360	460	360
2-Nitroaniline	330	2000	2000	1900	1800	1800	2300	1800
Dimethylphthalate	330	420	450	390	370	360	460	360
Acenaphthylene	330	420	450	390	370	360	460	360
2,6-Dinitrotoluene	330	420	450	390	370	360	460	360

TABLE 2 PAGE 2 OF 3
BRIDGEPORT NAME PLATE, INC.
MAY 7, 1990
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05D	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			DUPLICATE			
SEMI-VOLATILE COMPOUND								
3-Nitroaniline	1600	2000	2200	1900	1800	1800	2300	1800
Acenaphthene	330	420	450	390	370	360	460	360
2,4-Dinitrophenol	1600	2000	2200	1900	1800	1800	2300	1800
4-Nitrophenol	1600	2000	2200	1900	1800	1800	2300	1800
Dibenzofuran	330	420	450	390	370	360	460	360
2,4-Dinitrotoluene	330	420	450	390	370	360	460	360
Diethylphthalate	330	420	450	390	370	360	460	360
4-Chlorophenyl-phenylether	330	420	450	390	370	360	460	360
Fluorene	330	420	450	390	370	360	460	360
4-Nitroaniline	1600	2000	2200	1900	1800	1800	2300	1800
4,6-Dinitro-2-methylphenol	1600	2000	2200	1900	1800	1800	2300	1800
N-Nitrosodiphenylamine	330	420	450	390	370	360	460	360
4-Bromophenyl-phenylether	330	420	450	390	370	360	460	360
Hexachlorobenzene	330	420	450	390	370	360	460	360
Pentachlorophenol	1600	2000	2200	1900	1800	1800	2300	1800
Phenanthrene	330	420	450	390	370	360	460	360
Anthracene	330	420	450	390	370	360	460	360
Di-n-butylphthalate	330	420	450	390	370	360	460	360
Fluoranthene	330	420	450	390	370	360	460	360
Pyrene	330	420	450	390	370	360	460	360
Butylbenzylphthalate	330	420	450	390	370	360	460	360
3,3'-Dichlorobenzidine	660	840	890	790	740	730	930	730
Benzo(a)anthracene	330	420	450	390	370	360	460	360
Chrysene	330	420	450	390	370	360	460	360
bis(2-Ethylhexyl)phthalate	330	420	450	390	370	360	460	360
Di-n-octyl phthalate	330	420	450	390	370	360	460	360
Benzo(b)fluoranthene	330	420	450	390	370 UJ	360	460	360
Benzo(k)fluoranthene	330	420	450	390	370 UJ	360	460	360
Benzo(a)pyrene	330	420	450	390	370 UJ	360	460	360
Indeno (1,2,3-cd)pyrene	330	420	450	390	370	360	460	360
Dibenz(a,h)anthracene	330	420	450	390	370	360	460	360
Benzo(g,h,i)perylene	330	420	450	390	370	360	460	360

TABLE 2 PAGE 3 OF 3
BRIDGEPORT NAME PLATE, INC.

MAY 7, 1990

CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05D	SS-05	SS-06	SS-07
Sample Number	23439	23440	23441	23442	23443	23444	23445	23446
Traffic Report Number	AR839	AR840	AR841	AR842	AR843	AR844	AR845	AR846
Remarks	BLANK	BACKGROUND			DUPLICATE			
PESTICIDE/PCB COMPOUND								
alpha-BHC	8	10	11	9.5	9	8.7	11	8.7
beta-BHC	8	10	11	9.5	9	8.7	11	8.7
delta-BHC	8	10	11	9.5	9	8.7	11	8.7
gamma-BHC (Lindane)	8	10	11	9.5	9	8.7	11	8.7
Heptachlor	8	10	11	9.5	9	8.7	11	8.7
Aldrin	8	10	11	9.5	9	8.7	11	8.7
Heptachlor epoxide	8	10	11	9.5	9	8.7	11	8.7
Endosulfan I	8	10	11	9.5	9	8.7	11	8.7
Dieldrin	16	20	22	19	18	17	22	17
4,4'-DDE	16	20	22	19	18	17	22	17
Endrin	16	20	22	19	18	17	22	17
Endosulfan II	16	20	22	19	18	17	22	17
4,4'-DDD	16	20	22	19	18	17	22	17
Endosulfan sulfate	16	20	22	19	18	17	22	17
4,4'-DDT	16	20	22	19	18	17	22	17
Methoxychlor	80	100	110	95	90	87	110	87
Endrin ketone	16	20	22	19	18	17	22	17
alpha-Chlordane	80	100	110	95	90	87	110	87
gamma-Chlordane	80	100	110	95	90	87	110	87
Toxaphene	160	200	220	190	180	170	220	170
Aroclor-1016	80	100	110	95	90	87	110	87
Aroclor-1221	80	100	110	95	90	87	110	87
Aroclor-1232	80	100	110	95	90	87	110	87
Aroclor-1242	80	100	110	95	90	87	110	87
Aroclor-1248	80	100	110	95	90	87	110	87
Aroclor-1254	160	200	220	190	180	170	220	170
Aroclor-1260	160	200	220	190	180	170	220	170

Sample Quantitation Limits are reported on a dry weight basis.

UJ Sample Quantitation Limits are approximate due to limitations identified during the quality control review.

TABLE 3 PAGE 1 OF 1
BRIDGEPORT NAME PLATE INC.

MAY 7, 1990

CLP INORGANIC ANALYSIS
SOIL SAMPLE DETECTION LIMITS (mg/Kg)

Sample Location		SS-02	SS-03	SS-04	SS-05	SS-05D	SS-06	SS-07
Sample Number		23440	23441	23442	23444	23443	23445	23446
Traffic Report Number		MAP908	MAP909	MAP910	MAP912	MAP911	MAP913	MAP914
Remarks		BACKGROUND				DUPLICATE		
Percent Solids		80	74	85	90	89	75	91
INORGANIC ELEMENTS								
Aluminum	P	3.17	3.30	2.84	2.66	2.75	3.29	2.68
Antimony	P	2.90 UJ	3.04	2.60 UJ	2.45	2.54	3.00 UJ	2.50 UJ
Arsenic	F	0.48	0.50	0.46	0.42	0.42	0.52	0.41
Barium	P	0.49	0.51	0.44	0.41	0.42	0.51	0.41
Beryllium	P	0.24	0.25	0.22	0.20	0.21	0.25	0.21
Cadmium	P	0.24	0.25	0.22	0.20	0.21	0.25	0.21
Calcium	P	6.10	6.34	5.45	5.11	5.29	6.33	5.16
Chromium	P	0.98	1.01	0.87	0.82	0.85	1.01	0.83
Cobalt	P	0.98	1.01	0.87	0.82	0.85	1.01	0.83
Copper	P	1.22	1.27	1.09	1.02	1.06	1.27	1.03
Iron	P	1.46	1.52	1.31	1.23	1.27	1.52	1.24
Lead	P	0.49	0.51	0.44	0.41	0.42	0.51	0.41
Magnesium	P	13.17	13.69	11.78	11.03	11.42	13.68	11.15
Manganese	P	0.24	0.25	0.22	0.20	0.21	0.25	0.21
Mercury	CV	0.13	0.12	0.12	0.10	0.11	0.13	0.09
Nickel	P	1.22	1.27	1.09	1.02	1.06	1.27	1.03
Potassium	P	21.71	22.57	19.41	18.19	18.83	22.54	18.37
Selenium	F	0.70 UJ	0.70 UJ	0.70 UJ	0.64	0.60 UJ	0.80 UJ	0.60 UJ
Silver	P	0.73	0.76	0.65	0.61	0.63	0.76	0.62
Sodium	P	10.00	59.40	8.94	59.30	47.90	10.39	61.50
Thallium	F	0.72	0.75	0.69	0.64	0.63	0.78	0.62
Vanadium	P	0.73	0.76	0.65	0.61	0.63	0.76	0.62
Zinc	P	1.22	1.27	1.09	1.02	1.06	1.27	1.03
Cyanide	C	NA	NA	NA	NA	NA	NA	NA

Analytical Method

F Furnace AA
P ICP/Flame AA
CV Cold Vapor
C Colorimetric

NOTE: Sample Detection Limits are reported on a dry weight basis.

UJ The Detection Limit is approximate due to limitation identified during the quality control review.

NA Not Analyzed

ATTACHMENT E

**TABLE 1: "Bridgeport Nameplate," memo to the file from H. Williams
(Connecticut Department of Environmental Protection), dated
August 18, 1988. (CT DEP, 1988)**

INTERDEPARTMENTAL
MESSAGE

STO-201 REV. 7/86
(Stock No. 6938-051-01)

STATE OF CONNECTICUT

Obtain "STATE EMPLOYEE SUGGESTION" forms from, and send your ideas to: Employee's Suggestion Awards Program, 165 Capitol Avenue Hartford, Ct, 06106.

To	NAME, TITLE	DATE
	File	8/18/88
From	AGENCY, ADDRESS	TELEPHONE
	Harold J. Williams	x 8843

Subject: Bridgeport Nameplate Monroe

On receiving a call from the Monroe Fire Marshall, Paul Hassler, Walt Vergaus, and myself proceeded to 585 Fan Hill Rd. in Monroe, the former site of Bridgeport Nameplate. At the site we met with Tom Lorenzo, the former owner of Bridgeport Nameplate. Mr. Lorenzo stated that in June of 1988 he had contacted E.W.R. for a cost estimate of waste removal. As Mr. Lorenzo has no credit (or cash) nothing more has been done. We asked to see estimates from E.W.R. which he produced. The following information was copied from estimate:

Stream #	A24755	- Anodize rinse water
Lab date	5-13-88	
pH	2.1	TOC
Chrome	.2	220
Iron	13.0	Ammonia
Nickel	7.5	100
		Cad
		Copper
		11.9
		Zinc
		2.2

Stream # 24756 / Aluminum Hydroxide
NA 9189 RG Haz Waste Solid
DM FOIA
CT Reg waste liq TT CrO₄

Paul and Walter proceeded to take an inventory of containers on site. The following is a full inventory of liquid and solid chemical found on-site.

2 - Black 55 gal drums
1 - $\frac{3}{4}$ full 1 - $\frac{1}{2}$ full

Both bungs missing Top partially c

1 - 33 lb container (sealing salt nickel
 $\frac{1}{4}$ full)

1 Black drum (yellow band) xylene
full

1 Black drum xylene full
(bungs missing)

5- 30 gal carboys approx. full
3 Sulfuric acid
1 Ferric chloride
1 Hydrochloric

-all approx full, all have corrosive stickers.

1 Black 17 H. drum (176THW)
-approx. full

1 Black drum (unmarked)
-approx. full

13 drums with rust colored liq (rinse water)
- open top approx full

2 drums with black liquid
- open top approx. full

4 drums
-approx full badly rusted

floor trough running length of
bldg. 30' long 8" wide
-green brown sludge

- 1 55 gal drum sealed, badly rusted
no marking - Full
- 1 55 gal plastic Carboy
open - Full
- 1 400 gal tank open -
- Rinse water
- 1 30 gal plastic Carboy open
- Full
- 2 5 gal pails Full open
- 1 30 gal fibre drum
- 1/2 Full Co
- 1 5 gal pail 1/2 Full sludge
- green brown sludge
- 1 300 gal tank Full - dye
- 1 325 gal tank Full - Rinse water
- 1 275 gal tank Full - Rinse water

1 140 gal tank with plastic tank liner
- Full rinse water

1 140 gal tank Full
- sealer (Sandoz) contains nickel acetate

1 150 gal tank Full
- sodium hydroxide

1 150 gal tank Full
- alkaline cleaner, reddish color

2 150 gal tank Full
- rinse water from anodizer

1 200 gal tank Full
- anodizing soln. 15% sulfuric acid

1 150 gal. tank Full
- Hubbard Hall deoxidizer # 13
(combination of acid salts)

6 55 gal. drums open very powdery
- over flowing with white powder
(Aluminum hydroxide salts)

11 5 gal pail of similar (white
AlOH salts)

1 25 gallon garbage pail
- brown solids

1 drum full
- brown cake (sludge from cannodizing
rinse tank)

1 drum full
- brown liquid on top, sludge on
bottom

In north end of building, there
are heavy salt deposits on
floor.

2 drums open full
- brown sludge/cake

1 drum $\frac{3}{4}$ full
- unknown liquid

In small Bathroom in north end
of building

2 5 gal pails
- brown sludge

2 20 gal carboys approx full
- 1 marked sulfuric acid

Toilet still in place
- leads to separate septic system

Cement block wall (behind anodizing
tank)

- base is dissolved away (7-10')
with grade salt crusted up
base of wall

10' by 15' area of floor has
white and brown sludge salts
red caustic sludge on floor

1 drum (Black with Gold Marking)
- 1/2 full clear liquid petroleum
Naphtha Flammable liquid sticker

1 fiber drum Hubbard Hall
deoxidizer #13 $\frac{1}{4}$ full

1 fiber drum less than $\frac{1}{4}$ full
of white powder
350 lb drum spray cleaner by
diversey whandotte corp.

1 $\frac{1}{2}$ gallon container
- ammonium hydroxide

1 gallon container
- hydrochloric acid

1 metal storage cabinet
- inaccessible

grey PVC elbow usable coming
up outside rear (south) door
pipe leads to 4000 gal. tank
(waste feed)

- entrance to the pipe sealed
off with plug once tank was
filled.

In main production room

- 1 black drum (yellow band) Full
- xylene
- 11- 5 gal pails
- 2 full white paint flm liquid
- 2 Nicholas P138 reducer
(flm. liq., few inches in one, other is full)
- 1 full Nelco ind. prod. New
glow brightner (Hydrofluoric acid)
- 2 blanket wash approx. Full
wash (Wash R228 Anchor
with Kemko)
- 1 lube oil SAE 85 - 14 valvolin
- 3 tar (roofing compound)
- 1 gal container
- mineral spirits
- 3 gal paint cans
- 1 20 gal drum denflex 9110-32
- full

In back of building 5000 gal underground tank is still in place. This was full of rinse water. It was sampled during previous inspection by Paul Hassler. Borderline hazardous waste levels found. Soil from around former septic system still on site, and exposed. When analyzed found to have high metals by mass analysis, however little leaching metal.

Discussed disposal of material with Mr Lorenzo after the inspection. He restated that he was broke and could not afford any disposal.

Inquired whether state funds were available for disposal, expressed concern that burden would fall to land owner. Paul, Walter and myself departed at approximately 4:15.